Revision of Unit - 1 DSE Core 2: MVC Design Pattern in PHP

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Unit – 1 (Revision)

- Object, classes
- Creating classes and Instantiation
- Setting Properties and methods
- Understanding public, private, protected properties and methods
- Magic Methods and Inheritance
- Introduction of MVC
- Codelgniter specific files and structure

Object and Classes

- Objects are basic building blocks of a PHP OOP program
- An object is a combination of data and methods
- These objects communicate together through methods

Creating classes and Instantiation

```
simple Object ( ) object
```

PHP access modifiers

- Access modifiers set the visibility of methods and member fields
- PHP has three access modifiers: public protected, and private
- The *public* members can be accessed from anywhere
- The *protected* member can be accessed only within the class itself and by inherited and parent classes.
- The *private* members are only be accessed by the class that defines the member

Setting Properties and methods

- Object attributes is the data bundled in an instance of a class
- The object attributes are called instance variables or member fields
- An instance variable is a variable defined in a class.
- each object in the class has a separate copy

Setting Properties

```
<?php
    class Person {
        public $name = "";
   p1 = new Person();
   $p1->name = "Chirag";
   p2 = new Person();
   $p2->name = "Jagani";
    echo $p1->name . "\n";
    echo $p2->name . "\n";
```

Setting Methods

- Methods are functions defined inside the body of a class
- Methods are used to perform operations with the attributes of our objects
- Methods are essential in encapsulation concept of the OOP pattern

Setting Methods

```
<?php
     class Circle {
         public $radius;
         function setRadius($radius) {
             $this->radius = $radius;
         function area() {
             return $this->radius * $this->radius * M_PI;
 9
10
    $c = new Circle();
11
12 $c->setRadius(5);
     echo $c->area();
)13
```

Magic Methods

- The "magic" methods are special names, starting with two underscores, which will be triggered in response to particular PHP events
- PHP magic methods should be started with ____
 symbol
- All magic methods MUST be declared as public
- PHP reserves all function names starting with __ as magical

Magic Methods

- ___construct()
- __destruct()
- __get()
- ___set()
- isset()
- __unset()
- __toString()
- __clone()

Now Let's Start Practical work